

Author Index

- Abisi-Halabi, M., see Stanislaus, A. (50)237
 Adnot, A., see Rahman, A. (50)131
 Al-Dolama, K., see Stanislaus, A. (50)237
 Asami, K., see Fujimoto, K. (50)223
- Blanchard, M., see Derule, H. L1
- Campbell, T.K.
 —, and Falconer, J.L.
 Carbon dioxide hydrogenation on potassium-promoted nickel catalysts (50)189
 Canesson, P., see Derule, H. L1
 Casbas, F.
 —, Duprez, D. and Ollivier, J.
 Catalytic hydrodesulphurization of terpenes (50)87
 Chen, C.-T., see Tsai, T.C. (50)1
 Corma, A., see Cruz, J.M. (50)287
 Courtine, P., see Oudet, F. (50)79
 Cruz, J.M.
 —, Corma, A. and Fornés, V.
 Framework and extra-framework aluminium distribution in $(\text{NH}_4)_2\text{F}_6\text{Si}$ -dealuminated Y zeolites. Relevance to cracking catalysts (50)287
- De Goldwasser, M.R., see Pietri De Garcia, E. (50)55
 Delmon, B., see Karroua, M. L7
 Derule, H.
 —, Blanchard, M. and Canesson, P.
 Preparation of supported catalysts by reduction of metal complexes: Cobalt supported on alumina L1
 Diagne, C.
 —, Idriss, H., Pepin, I., Hindermann, J.P. and Kiennemann, A.
 Temperature-programmed desorption studies on Pd/CeO₂ after methanol and formic acid adsorption and carbon monoxide hydrogen reaction (50)43
 Duprez, D., see Casbas, F. (50)87
- Edvinsson, R., see Hudgins, R.R. 303
 El Masry, H.
 —, Reply to: "Comments on Claus Reaction: Effect of forced feed composition cycling" (letter to the Editor) (50)307
 Flaconer, J.L., see Campbell, T.K. (50)189
- Fornés, F., see Cruz, J.M. (50)287
 Fujikawa, K.
 —, Hayashi, A., Tanaka, H., Kanazuka, T., Kanno, T. and Kodera, T.
 Catalytic gasification of carbon: Method for the determination of the activity of alkali metal catalysts in the gasification of highly pure amorphous and graphitic carbons with steam (50)199
 Fujimoto, K.
 —, Hashimoto, S., Asami, K., Omata, K. and Tominaga, H.
 Selective oxidative coupling of methane over supported alkaline earth metal halide catalysts (50)223
 Fukuoka, A.
 —, Rao, L.-F., Kosugi, N., Kuroda, H. and Ichikawa, M.
 Selective hydroformylation of ethene and propene catalysed on NaY zeolite-entrapped Rh₆ and bimetallic RhFe clusters and their structural characterization by extended X-ray absorption fine structure and Fourier transform infrared spectroscopy (50)294
- Gotoh, H., see Suzuki, T. (50)15
 Grange, P., see Karroua, M. (50)L7
 Günnschel, H., see Martin, A. (50)149
- Hashimoto, S., see Fujimoto, K. (50)223
 Hattori, T.
 —, Niwa, H., Satsuma, A., Kito, S. and Murakami, Y.
 Performance of promoted SnO₂ catalyst designed by an expert systems approach for oxidative dehydrogenation of ethylbenzene L13
 Hayashi, A., see Fujikawa, K. (50)199
 Hindermann, J.P., see Diagne, C. (50)43
 Holmen, A.
 —, Schanke, D. and Sundmark, G.
 Hydrogenation of carbon monoxide over iron catalysts on different supports (50)211
 Hudgins, R.R.
 —, Silveston, P.L. and Edvinsson, R.
 Comments on "Claus Reaction: Effect of

- forced feed composition cycling" (letter to the Editor) (50)303
- Ichikawa, M., see Fukuoka, A. (50)294
- Idriss, H., see Diagne, C. (50)43
- Ilieva, L.
- , Kotsev, N. and Shopov, D.
Investigation of the effect of water and oxygen on the reaction of propylene with cobalt oxide-magnesium oxide solid solutions. I. Thermodesorption study (50)27
- Ilieva, L.
- , Matyshak, V., Kotsev, N., Kadushin, A. and Shopov, D.
Investigation of the effect of water and oxygen on the reaction of propylene with cobalt oxide-magnesium oxide solid solution. II. IR Spectroscopic study (50)37
- Jean, G., see Rahman, A. (50)131
- Jenner, G.
- , The selectivity problem in the homogeneous carbonylation and hydrocarbonylation of alcohols and esters - a review (50)99
- Jinnings, J.R.
- , Lambert, R.M., Nix, R.M., Owen, G. and Parker, D.G.
Novel methanol synthesis catalysts derived from intermetallic precursors: CO₂ poisoning and molecular mechanism of the synthesis reactions (50)157
- Kadushin, A., see Ilieva, L. (50)37
- Kaliaguine, S., see Rahman, A. (50)131
- Kanazuka, T., see Fujikawa, K. (50)199
- Kanno, T., see Fujikawa, K. (50)199
- Karroua, M.
- , Grange, P. and Delmon, B.
Existence of synergy between "CoMoS" and Co₉S₈: New proof of remote control in hydrodesulfurization L7
- Kiennemann, A., see Diagne, C. (50)43
- Kito, S., see Hattori, T. L13
- Kodera, T., see Fujikawa, K. (50)199
- Kosugi, N., see Fukuoka, A. (50)294
- Kotsev, N., see Ilieva, L. (50)27
- Kotsev, N., see Ilieva, L. (50)37
- Kung, H.-Y., see Tsai, T.C. (50)1
- Kuroda, H., see Fukuoka, A. (50)294
- Lambert, R.M., see Jennings, J.R. (50)157
- Leal, O., see Pietri De Garcia, E. (50)55
- Lee, J.K.
- , Verykios, X.E. and Pitchai, R.
Support and crystallite size effects in ethylene oxidation catalysis (50)171
- Lemay, G., see Rahman, A. (50)131
- Lücke, B., see Martin, A. (50)149
- Martin, A.
- , Nowak, S., Lücke, B. and Günschel, H.
Coupled conversion of methanol and C₄ hydrocarbons to lower olefins (50)149
- Matyshak, V., see Ilieva, L. (50)37
- McNeil, M.A.
- , Schack, C.J. and Rinker, R.G.
Methanol synthesis from hydrogen, carbon monoxide and carbon dioxide over a CuO/ZnO/Al₂O₃ catalyst. II. Development of a phenomenological rate expression (50)265
- McNeil, M.A., see Schack, C.J. (50)247
- Murakami, Y., see Hattori, T. L13
- Niwa, H., see Hattori, T. L13
- Nix, R.M., see Jennings, J.R. (50)157
- Nourbakhsh, N.
- , Tsotsis, T.T. and Webster, I.A.
Model planar alumina catalyst preparation and aging under hydrotreating conditions (50)65
- Nowak, S., see Martin, A. (50)149
- Ollivier, J., see Casbas, F. (50)87
- Omata, K., see Fujimoto, K. (50)223
- Oudet, F.
- , Vejux, A. and Courtine, P.
Evolution during thermal treatment of pure and lanthanum-doped Pt/Al₂O₃ and Pt-Rh/Al₂O₃ automotive exhaust catalysts: Transmission electron microscopy studies on model samples (50)79
- Owen, G., see Jennings, J.R. (50)157
- Parker, D.G., see Jennings, J.R. (50)157
- Parra, C.F., see Pietri De Garcia, E. (50)55
- Pepin, I., see Diagne, C. (50)43
- Pietri De Garcia, E.
- , De Goldwasser, M.R., Parra, C.F. and Leal, O.
Oxidative dehydrogenation of cyclohexene over cobalt-exchanged Y-zeolites (50)55

- Pitchai, R., see Lee, J.K. (50)171
- Rahman, A.
- , Adnot, A., Lemay, G., Kaliaguine, S. and Jean, G.
Chemical modification of H-ZSM-5 by adsorption of rhodium and phosphorus complexes (50)131
- Rao, L.-F., see Fukuoka, A. (50)294
- Rinker, R.G., see McNeil, M.A. (50)265
- Rinker, R.G., see Schack, C.J. (50)247
- Satsumi, A., see Hattori, T. L13
- Schack, C.J.
- , McNeil, M.A. and Rinker, R.G.
Methanol synthesis from hydrogen, carbon monoxide, and carbon dioxide over a CuO/ZnO/Al₂O₃ catalyst. I. Steady-state kinetics experiments (50)247
- Schack, C.J., see McNeil, M.A. (50)265
- Schanke, D., see Holmen, A. (50)211
- Shinohara, H.
- , Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. V. X-ray photoelectron spectroscopic study of Pd-Sb-V-CsCl-KOAc catalyst (50)119
- Shopov, D., see Ilieva, L. (50)27
- Shopov, D., see Ilieva, L. (50)37
- Silveston, P.L., see Hudgins, R.R. 303
- Stanislaus, A.
- , Absi-Halabi, M. and Al-Dolama, K.
Effect of nickel on the surface acidity of γ -alumina and alumina-supported nickel-molybdenum hydrotreating catalysts (50)237
- Sundmark, G., see Holmen, A. (50)211
- Suzuki, T.
- , Tanaka, K., Toyoshima, I. and Gotoh, H.
Ethylene homologation reaction in the presence of metathesis on MoO₃/SiO₂ catalyst: Selectivity promoted by adding copper (50)15
- Tanaka, H., see Fujikawa, K. (50)199
- Tanaka, K., see Suzuki, T. (50)15
- Tominaga, H., see Fujimoto, K. (50)223
- Toyoshima, I., see Suzuki, T. (50)15
- Tsai, T.-C.
- , Kung, H.-Y., Yu, S.-T. and Chen, C.-T.
Effects of acid strength of fluid cracking catalysts on resid cracking operation (50)1
- Tsotsis, T.T., see Nourbakhsh, n. (50)65
- Vejux, A., see Oudet, F. (50)79
- Verykios, X.E., see Lee, J.K. (50)171
- Webster, I.A., see Nourbakhsh, N. (50)65
- Yu, S.-T., see Tsai, T.C. (50)1

Subject Index

Acetoxylation

Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. V. X-ray photoelectron spectroscopic study of Pd-Sb-V-CsCl-KOAc catalyst 119

Acid strength

Effects of acid strength of fluid cracking catalysts on resid cracking operation 1

Acidity

Effect of nickel on the surface acidity of γ -alumina and alumina-supported nickel-molybdenum hydrotreating catalysts 237

Adsorption

Investigation of the effect of water and oxygen on the reaction of propylene with cobalt oxide-magnesium oxide solid solutions. I. Thermodesorption study 27

Adsorption

Investigation of the effect of water and oxygen on the reaction of propylene with cobalt oxide-magnesium oxide solid solutions. II. IR spectroscopic study 37

Adsorption

Temperature-programmed desorption studies on Pd/CeO₂ after methanol and formic acid adsorption and carbon monoxide-hydrogen reaction 43

Ageing

Model planar alumina catalyst preparation and aging under hydrotreating conditions 65

Ageing

Evolution during thermal treatment of pure and lanthanum-doped Pt/Al₂O₃ and Pt-Rh/Al₂O₃ automotive exhaust catalysts: Transmission electron microscopy studies on model samples 79

Ageing

Novel methanol synthesis catalysts derived from intermetallic precursors: CO₂ poisoning and molecular mechanism of the synthesis reaction 157

Alcohols

The selectivity problem in the homogeneous carbonylation and hydrocarbonylation of alcohols and esters - A review 99

Alkali metal catalysts

Catalytic gasification of carbon: method for the determination of the activity of alkali

methal catalysts in the gasification of highly pure amorphous and graphitic carbons with steam 199

Alkaline earth metal halide catalysts

Selective oxidative coupling of methane over supported alkaline earth metal halide catalysts 223

Alumina films

Model planar alumina catalyst preparation and aging under hydrotreating conditions 65

Anodic alumina films

Model planar alumina catalyst preparation and aging under hydrotreating conditions 65

Artificial intelligence

Performance of promoted SnO₂ catalysts designed by an expert systems approach for oxidative dehydrogenation of ethylbenzene L11

Automotive exhaust catalysts

Evolution during thermal treatment of pure and lanthanum-doped Pt/Al₂O₃ and Pt-Rh/Al₂O₃ automotive exhaust catalysts: Transmission electron microscopy studies on model samples 79

Bauxite

Reply to "Comments on Claus Reaction: Effect of forced feed composition cycling" 307

Brønsted acid

Framework and extra-framework aluminium distribution in (NH₄)₂F₆ Si-dealuminated Y zeolites. Relevance to cracking catalysts 287

Butadiene

Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. V. X-ray photoelectron spectroscopic study of Pd-Sb-V-CsCl-KOAc catalyst 119

Carbon dioxide methanation

Carbon dioxide hydrogenation on potassium-promoted nickel catalysts 189

Carbon dioxide poisoning

Novel methanol synthesis catalysts derived from intermetallic precursors: CO₂

- poisoning and molecular mechanism of the synthesis reaction 157
- Carbon gasification
Catalytic gasification of carbon: Method for the determination of the activity of alkali metal catalysts in the gasification of highly pure amorphous and graphitic carbons with steam 199
- Carbon monoxide hydrogenation
Hydrogenation of carbon monoxide over iron catalysts on different supports 211
- Carbon monoxide-hydrogen
Temperature-programmed desorption studies on Pd/CeO₂ after methanol and formic acid adsorption and carbon monoxide-hydrogen reaction 43
- Carbonylation
The selectivity problem in the homogeneous carbonylation and hydrocarbonylation of alcohols and esters - A review 99
- Catalyst characterization (acidity)
Catalytic hydrodesulphurization of terpenes 87
- Catalyst characterization (ESR, temperature-programmed techniques)
Oxidative dehydrogenation of cyclohexene over cobalt-exchanged Y-zeolites 55
- Catalyst characterization (NMR)
Effects of acid strength of fluid cracking catalysts on resid cracking operation 1
- Catalyst characterization (SEM/EDAX,XPS)
Model planar alumina catalyst preparation and aging under hydrotreating conditions 65
- Catalyst characterization (spectroscopic techniques)
Ethylene homologation reaction in the presence of metathesis on MoO₃/SiO₂ catalyst: Selectivity promoted by adding copper 15
- Catalyst characterization (spectroscopic techniques)
Investigation of the effect of water and oxygen on the reaction of propylene with cobalt oxide-magnesium oxide solid solutions. II. IR spectroscopic study 37
- Catalyst characterization (spectroscopic techniques)
Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. V. X-ray photoelectron spectroscopic study of Pd-Sb-V-CsCl-KOAc catalyst 119
- Catalyst characterization (spectroscopic techniques)
Framework and extra-framework aluminium distribution in (NH₄)₂F₆Si-dealuminated Y zeolites. Relevance to cracking catalysts 287
- Catalyst characterization (spectroscopic techniques)
Selective hydroformylation of ethene and propene catalysed on NaY zeolite-entrapped Rh₆ and bimetallic RhFe clusters and their structural characterization by extended X-ray absorption fine structure and Fourier transform infrared spectroscopy 294
- Catalyst characterization (TEM)
Evolution during thermal treatment of pure and lanthanum-doped Pt/Al₂O₃ and Pt-Rh/Al₂O₃ automotive exhaust catalysts: Transmission electron microscopy studies on model samples 79
- Catalyst characterization (temperature-programmed techniques)
Investigation of the effect of water and oxygen on the reaction of propylene with cobalt oxide-magnesium oxide solid solutions. I. Thermodesorption study 27
- Catalyst characterization (temperature-programmed techniques)
Temperature-programmed desorption studies on Pd/CeO₂ after methanol and formic acid adsorption and carbon monoxide-hydrogen reaction 43
- Catalyst characterization (temperature-programmed techniques)
Effect of nickel on the surface acidity of γ -alumina and alumina-supported nickel-molybdenum hydrotreating catalysts 237
- Catalyst characterization (XRD, spectroscopic techniques)
Chemical modification of H-ZSM-5 by adsorption of rhodium and phosphorus complexes 131
- Catalyst characterization (XRD, temperature-programmed techniques)
Hydrogenation of carbon monoxide over iron catalysts on different supports 211
- Catalyst preparation (gel)
Performance of promoted SnO₂ catalysts designed by an expert systems approach for

- oxidative dehydrogenation of ethylbenzene L11
- Catalyst preparation (ion exchange)
 - Chemical modification of H-ZSM-5 by adsorption of rhodium and phosphorus complexes 131
- Catalyst preparation (ion exchange)
 - Framework and extra-framework aluminium distribution in $(\text{NH}_4)_2\text{F}_6$ Si-dealuminated Y zeolites. Relevance to cracking catalysts 287
- Catalyst preparation (simultaneous active phase-support preparation)
 - Preparation of supported catalysts by reduction of metal complexes: Cobalt supported on alumina L1
- Catalyst preparation (vapour deposition)
 - Catalytic gasification of carbon: Method for the determination of the activity of alkali metal catalyst in the gasification of highly pure amorphous and graphitic carbons with steam 199
- Catalyst preparation (wet impregnation)
 - Hydrogenation of carbon monoxide over iron catalysts on different supports 211
- Claus Reaction
 - Comments on "Claus Reaction: Effect of forced feed composition cycling" 303
- Claus Reaction
 - Reply to "Comments on Claus Reaction: Effect of forced feed composition cycling" 307
- Cobalt
 - Oxidative dehydrogenation of cyclohexene over cobalt-exchanged Y-zeolites 55
- Cobalt
 - The selectivity problem in the homogeneous carbonylation and hydrocarbonylation of alcohols and esters - A review 99
- Cobalt
 - Existence of synergy between "CoMoS" and Co_9S_8 : New proof of remote control in hydrodesulfurization L5
- Cobalt/alumina
 - Preparation of supported catalysts by reduction of metal complexes: Cobalt supported on alumina L1
- Cobalt oxide-magnesium oxide
 - Investigation of the effect of water and oxygen on the reaction of propylene with cobalt oxide-magnesium oxide solid solutions. I. Thermodesorption study 27
- Cobalt oxide-magnesium oxide
 - Investigation of the effect of water and oxygen on the reaction of propylene with cobalt oxide-magnesium oxide solid solutions. II. IR spectroscopic study 37
- Cobalt-molybdenum
 - Catalytic hydrodesulphurization of terpenes 87
- Coke formation
 - Model planar alumina catalyst preparation and aging under hydrotreating conditions 65
- Coke formation
 - Coupled conversion of methanol and C_4 hydrocarbons to lower olefins 149
- Copper
 - Ethylene homologation reaction in the presence of metathesis on $\text{MoO}_3/\text{SiO}_2$ catalyst: Selectively promoted by adding copper 15
- Copper oxide-zinc oxide/alumina
 - Methanol synthesis from hydrogen, carbon monoxide and carbon dioxide over a $\text{CuO}/\text{ZnO}/\text{Al}_2\text{O}_3$ catalyst. II. Development of a phenomenological rate expression 265
- Copper oxide-zinc oxide/alumina
 - Methanol synthesis from hydrogen, carbon monoxide, and carbon dioxide over a $\text{CuO}/\text{ZnO}/\text{Al}_2\text{O}_3$ catalyst. I. Steady-state kinetics experiments 247
- Copper/REO
 - Novel methanol synthesis catalysts derived from intermetallic precursors: CO_2 poisoning and molecular mechanism of the synthesis reaction 157
- Cracking catalysts
 - Effects of acid strength of fluid cracking catalysts on resid cracking operation 1
- Cracking catalysts
 - Framework and extra-framework aluminium distribution in $(\text{NH}_4)_2\text{F}_6$ Si-dealuminated Y zeolites. Relevance to cracking catalysts 287
- Crystallite size
 - Support and crystallite size effects in ethylene oxidation catalysis 171
- Cyclohexene dehydrogenation
 - Oxidative dehydrogenation of cyclohexene over cobalt-exchanged Y-zeolites 55
- Esters
 - The selectivity problem in the homogeneous

- ous carbonylation and hydrocarbonylation of alcohols and esters - A review 99
- Ethene oxidation**
Support and crystallite size effects in ethylene oxidation catalysis 171
- Ethylbenzene dehydrogenation**
Performance of promoted SnO_2 catalysts designed by an expert systems approach for oxidative dehydrogenation of ethylbenzene L11
- Ethylene homologation**
Ethylene homologation reaction in the presence of metathesis on $\text{MoO}_x/\text{SiO}_2$ catalyst: Selectively promoted by adding doper 15
- Expert systems**
Performance of promoted SnO_2 catalysts designed by expert systems approach for oxidative dehydrogenation of ethylbenzene L11
- Feed composition**
Comments on "Claus Reaction: Effect of forced feed composition cycling" 303
- Feed composition**
Reply to "Comments on Claus Reaction: Effect of forced feed composition cycling" 307
- Formic acid**
Temperature-programmed desorption studies on Pd/CeO_2 after methanol and formic acid adsorption and carbon monoxide-hydrogen reaction 43
- Gas-phase acetoxylation**
Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. V. X-ray photoelectron spectroscopic study of Pd-Sb-V-CsCl-KOAc catalyst 119
- Gasification**
Catalytic gasification of carbon: Method for the determination of the activity of alkali metal catalysts in the gasification of highly pure amorphous and graphitic carbons with steam 199
- Hydrocarbonylation**
The selectivity problem in the homogeneous carbonylation and hydrocarbonylation of alcohols and esters - A review 99
- Hydrodesulphurization**
Existence of synergy between "CoMoS" and Co_9S_8 : New proof of remote control in hydrodesulfurization L5
- Hydrodesulphurization**
Catalytic hydrodesulphurization of terpenes 87
- Hydroformylation**
Selective hydroformylation of ethene and propene catalysed on NaY zeolite-entrapped Rh_6 and bimetallic RhFe clusters and their structural characterization by extended X-ray absorption fine structure and Fourier transform infrared spectroscopy 294
- Hydrotreating catalysts**
Model planar alumina catalyst preparation and aging under hydrotreating conditions 65
- Hydrotreating catalysts**
Effect of nickel on the surface acidity of γ -alumina and alumina-supported nickel-molybdenum hydrotreating catalysts 237
- Iron/alumina**
Hydrogenation of carbon monoxide over iron catalysts on different supports 211
- Iron/magnesia**
Hydrogenation of carbon monoxide over iron catalysts on different supports 211
- Iron/titania**
Hydrogenation of carbon monoxide over iron catalysts on different supports 211
- Iron/zeolite**
Hydrogenation of carbon monoxide over iron catalysts on different supports 211
- Isomerization**
Catalytic hydrodesulphurization of terpenes 87
- Isotopic labelling**
Ethylene homologation reaction in the presence of metathesis on $\text{MoO}_x/\text{SiO}_2$ catalyst: Selectively promoted by adding copper 15
- Kinetics**
Investigation of the effect of water and oxygen on the reaction of propylene with cobalt oxide-magnesium oxide solid solutions. I. Thermodesorption study 27
- Kinetics**
Catalytic hydrodesulphurization of terpenes 87

Kinetics

Support and crystallite size effects in ethylene oxidation catalysis 171

Kinetics

Methanol synthesis from hydrogen, carbon monoxide, and carbon dioxide over a CuO/ZnO/Al₂O₃ catalyst. I. Steady-state kinetics experiments 247

Methane

Carbon dioxide hydrogenation on potassium-promoted nickel catalysts 189

methane coupling

Selective oxidative coupling of methane over supported alkaline earth metal halide catalysts 223

Methanol

Temperature-programmed desorption studies on Pd/CeO₂ after methanol and formic acid adsorption and carbon monoxide-hydrogen reaction 43

Methanol synthesis

Novel methanol synthesis catalysts derived from intermetallic precursors: CO₂ poisoning and molecular mechanism of the synthesis reaction 157

Methanol synthesis

Methanol synthesis from hydrogen, carbon monoxide, and carbon dioxide over a CuO/ZnO/Al₂O₃ catalyst. I. Steady-state kinetics experiments 247

Methanol synthesis

Methanol synthesis from hydrogen, carbon monoxide and carbon dioxide over CuO/ZnO/Al₂O₃ catalyst. II. Development of a phenomenological rate expression 265

Methanol-hydrocarbon cracking

Coupled conversion of methanol and C₄ hydrocarbons to lower olefins 149

Methanol-to-gasoline

Chemical modification of H-ZSM-5 by adsorption of rhodium and phosphorus complexes 131

Molybdenum

Existence of synergy between "CoMoS" and Co₉S₈: New proof of remote control in hydrodesulfurization L5

Molybdenum oxide/silica

Ethylene homologation reaction in the presence of metathesis on MoO₃/SiO₂ cat-

alyst: Selectively promoted by adding copper 15

Nickel-molybdenum/alumina

Effect of nickel on the surface acidity of γ -alumina and alumina-supported nickel-molybdenum hydrotreating catalysts 237

Nickel/silica

Carbon dioxide hydrogenation on potassium-promoted nickel catalysts 189

Nickel/silica-alumina

Carbon dioxide hydrogenation on potassium-promoted nickel catalysts 189

Oxidative coupling

Selective oxidative coupling of methane over supported alkaline earth metal halide catalysts 223

Palladium

Gas-phase acetoxylation of 1,3-butadiene over palladium catalyst. V. X-ray photoelectron spectroscopic study of Pd-Sb-V-CsCl-KOAc catalyst 119

Palladium/ceria

Temperature-programmed desorption studies on Pd/CeO₂ after methanol and formic acid adsorption and carbon monoxide-hydrogen reaction 43

Pentane cracking

Chemical modification of H-ZSM-5 by adsorption of rhodium and phosphorus complexes 131

Platinum-rhodium/alumina

Evolution during thermal treatment of pure and lanthanum-doped Pt/Al₂O₃ and Pt-Rh/Al₂O₃ automotive exhaust catalysts: Transmission electron microscopy studies on model samples 79

Platinum/alumina

Evolution during thermal treatment of pure and lanthanum-doped Pt/Al₂O₃ and Pt-Rh/Al₂O₃ automotive exhaust catalyst: Transmission electron microscopy studies on model samples 79

Propene oxidation

Investigation of the effect of water and oxygen on the reaction of propylene with cobalt oxide-magnesium oxide solid solutions. I. Thermodesorption study 27

Propene oxidation

Investigation of the effect of water and oxygen on the reaction of propylene with co-

- balt oxide-magnesium oxide solid solutions. II. IR spectroscopic study 37
- Rate expression**
Methanol synthesis from hydrogen, carbon monoxide and carbon dioxide over a CuO/ZnO/Al₂O₃ catalyst. II. Development of a phenomenological rate expression 265
- Regeneration**
Coupled conversion of methanol and C₄ hydrocarbons to lower olefins 149
- Rhodium**
Chemical modification of H-ZSM-5 by adsorption of rhodium and phosphorus complexes 131
- Rhodium-iron/zeolite**
Selective hydroformylation of ethene and propene catalysed on NaY zeolite-entrapped Rh₆ and bimetallic RhFe clusters and their structural characterization by extended X-ray absorption fine structure and Fourier transform infrared spectroscopy 294
- Ruthenium**
The selectivity problem in the homogeneous carbonylation and hydrocarbonylation of alcohols and esters - A review 99
- Selectivity (aldehydes and alcohols)**
Selective hydroformylation of ethene and propene catalysed on NaY zeolite-entrapped Rh₆ and bimetallic RhFe clusters and their structural characterization by extended X-ray absorption fine structure and Fourier transform infrared spectroscopy 294
- Selectivity (benzene)**
Oxidative dehydrogenation of cyclohexene over cobalt-exchanged Y-zeolites 55
- Selectivity (C₂₊)**
Selective oxidative coupling of methane over supported alkaline earth metal halide catalysts 233
- Selectivity (epoxide formation)**
Support and crystallite size effects in ethylene oxidation catalysis 171
- Selectivity (gasoline)**
Effects of acid strength of fluid cracking catalysts on resid cracking operation 1
- Selectivity (hydrocarbons)**
Chemical modification of H-ZSM-5 by adsorption of rhodium and phosphorus complexes 131
- Selectivity (lower alkenes)**
Coupled conversion of methanol and C₄ hydrocarbons to lower olefins 149
- Selectivity (methane)**
Carbon dioxide hydrogenation on potassium-promoted nickel catalysts 189
- Selectivity (methanol)**
Methanol synthesis from hydrogen, carbon monoxide, and carbon dioxide over a CuO/ZnO/Al₂O₃ catalyst. I. Steady-state kinetics experiments 247
- Selectivity (other)**
The selectivity problem in the homogeneous carbonylation and hydrocarbonylation of alcohols and esters - A review 99
- Selectivity (pinene, carene)**
Catalytic hydrodesulphurization of terpenes 87
- Selectivity (shape-)**
Framework and extra-framework aluminium distribution in (NH₄)₂F₆Si-dealuminated Y zeolites. Relevance to cracking catalysts 287
- Silver**
Support and crystallite size effects in ethylene oxidation catalysis 171
- Sintering**
Evolution during thermal treatment of pure and lanthanum-doped Pt/Al₂O₃ and Pt-Rh/Al₂O₃ automotive exhaust catalysts: Transmission electron microscopy studies on model samples 79
- Support effect**
Support and crystallite size effects in ethylene oxidation catalysis 171
- Synergy**
Existence of synergy between "CoMoS" and Co₉S₈: New proof of remote control in hydrodesulfurization L5
- Syngas conversion**
Preparation of supported Catalysts by reduction of metal complexes: Cobalt on alumina L1
- Syngas conversion**
Methanol synthesis from hydrogen, carbon monoxide, and carbon dioxide over a CuO/ZnO/Al₂O₃ catalyst. I. Steady-state kinetics experiments 247
- Syngas conversion**
Methanol synthesis from hydrogen, car-

- bon monoxide and carbon dioxide over a CuO/ZnO/Al₂O₃ catalyst. II. Development of a phenomenological rate expression 265
- Syngas conversion
- Temperature-programmed desorption studies on Pd/CeO₂ after methanol and formic acid adsorption and carbon monoxide-hydrogen reaction 43
- Terpenes
- Catalytic hydrodesulphurization of terpenes 87
- Thiophene
- Existence of synergy between "CoMoS" and Co₉S₈: New proof of remote control in hydrodesulfurization L5
- Tin oxide
- Performance of promoted SnO₂ catalysts designed by an expert systems approach for oxidative dehydrogenation of ethylbenzene L13
- Zeolites
- Effects of acid strength of fluid cracking catalysts on resid cracking operation 1
- Zeolites
- Oxidative dehydrogenation of cyclohexene over cobalt-exchanged Y-zeolites 55
- Zeolites
- Chemical modification of H-ZSM-5 by adsorption or rhodium and phosphorus complexes 131
- Zeolites
- Coupled conversion of ethanol and C₄ hydrocarbons to lower olefins 149
- Zeolites
- Hydrogenation of carbon monoxide over iron catalyst on different supports 211
- Zeolites
- Framework and extra-framework aluminum distribution in (NH₄)₂F₆Si-dealuminated Y zeolites. Relevance to cracking catalysts 287
- Zeolites
- Selective hydroformylation of ethene and propene catalysed on NaY zeolite-entrapped Rh₆ and bimetallic RhFe clusters and their structural characterization by extended X-ray absorption fine structure and Fourier transform infrared spectroscopy 294

